

Grant County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/26/2017

Using the most recent IMPLAN data available (2015) adjusted for 2017, 15 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Grant County economy.¹

These 15 sectors have a total direct output of approximately **\$534.3 million** and support **641.5 jobs** in Grant County. Running the model for all 15 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Grant County Economy						
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product
Direct Effect	641.5	12.82%	\$125,359,322	27.47%	\$534,292,836	117.06%
Indirect Effect	501.1	10.01%	\$53,024,602	11.62%	\$86,514,381	18.95%
Induced Effect	311.2	6.22%	\$22,552,889	4.94%	\$41,046,109	8.99%
Total Effect	1453.8	29.05%	\$200,936,813	44.02%	\$661,853,325	145.01%

As shown in the above table, agriculture, food, and food processing sectors support **1,453.8 jobs**, or **29.05%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$661.9 million**, roughly **145.01% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 15 agriculture, food, and food processing sectors is approximately **\$200.9 million**, or **44.02% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **44.02% of the total economy**.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **483.5 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Grant County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	483.5	\$445,697,286
Wholesale trade	120.2	\$26,436,396
Support activities for agriculture and forestry	119.3	\$16,994,269
Truck transportation	78.6	\$17,432,691
Landscape and horticultural services	71.8	\$2,346,661
Real estate	47.8	\$7,975,442
Monetary authorities and depository credit intermediation	41.1	\$6,940,269
Limited-service restaurants	38.3	\$2,599,692
Grain farming	29.3	\$67,313,928
Hospitals	26.5	\$4,090,979

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately **\$445.7 million** to the Grant County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	483.5	\$445,697,286
Grain farming	29.3	\$67,313,928
Wholesale trade	120.2	\$26,436,396
Truck transportation	78.6	\$17,432,691
Support activities for agriculture and forestry	119.3	\$16,994,269
Owner-occupied dwellings	0.0	\$9,518,526
Real estate	47.8	\$7,975,442
Monetary authorities and depository credit intermediation	41.1	\$6,940,269
All other crop farming	9.1	\$4,411,880
Animal production, except cattle and poultry and eggs	6.7	\$4,113,157

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Grant County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	0.2	\$1,425,008.65
Grain farming	29.3	\$67,313,926.70
Vegetable and melon farming	0.3	\$141,087.90
Greenhouse, nursery, and floriculture production	1.7	\$466,047.05
Cotton farming	0.1	\$71,259.84
All other crop farming	9.1	\$4,411,880.02
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	483.5	\$445,697,265.63
Dairy cattle and milk production	4.6	\$3,857,678.89
Poultry and egg production	0.1	\$148,227.23
Animal production, except cattle and poultry and eggs	6.7	\$4,113,156.80
Bread and bakery product, except frozen, manufacturing	9.7	\$1,301,875.59
Frozen cakes and other pastries manufacturing	0.3	\$39,448.56
Tortilla manufacturing	6.8	\$1,385,304.09
Veterinary services	17.3	\$1,573,985.46
Landscape and horticultural services	71.8	\$2,346,661.09

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Grant County, the retail sector was omitted.